Beocord 6500 setting up and operating guide

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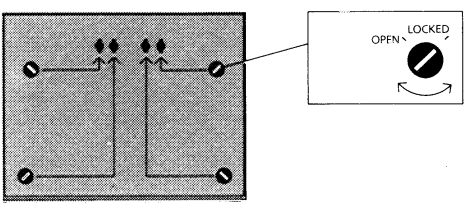
See Beosystem 6500 user's guide for remote control operations.

Removing the transport screws

Before using the tape recorder you must remove the four plastic transport screws underneath it.

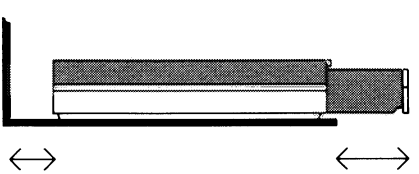
Carefully turn the tape recorder upside down. Using a coin turn each screw anti-clockwise to the position marked OPEN. Then remove the screws and insert them in the four holes provided for safekeeping.

If you ever have to carry the tape recorder again, we strongly recommend that you reinsert the four transport screws, and turn them to the position marked LOCKED.



Where to put the tape recorder

The tape recorder must be placed horizontally on a stable surface. Make sure to put it in a place where ventilation cannot be impeded. Make sure that the drawer in the tape recorder can open freely.

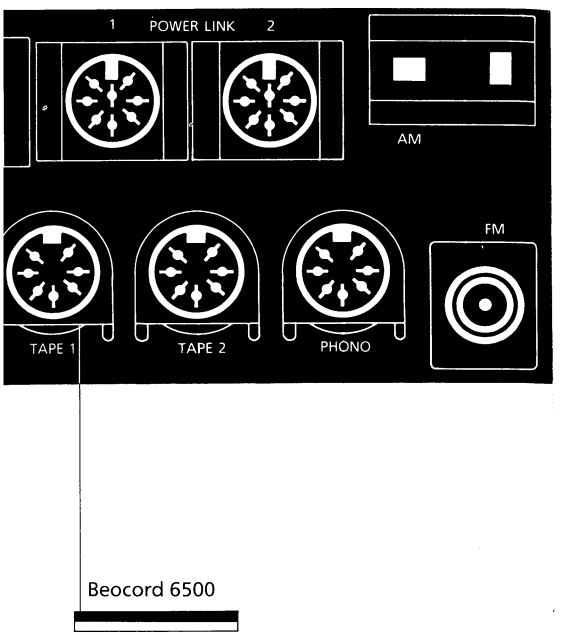


Connections

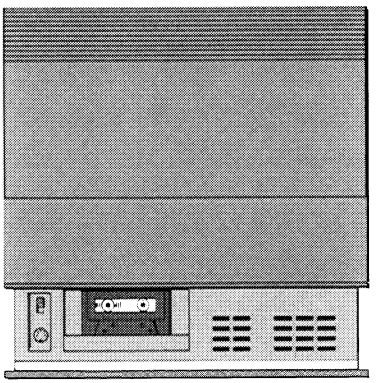
Once connected to the mains supply, the tape recorder is in so-called stand-by mode and ready to be operated.

The stand-by mode is indicated by a tiny red light on the display panel on the front.

Beomaster 6500



Accessing tape and controls



Gently tap the left-hand side of the front panel where it is marked OPEN to open the drawer.

The tape compartment, all the buttons, the LINE/MIC/AUX switch and the MIC/AUX socket are now visible.

The cassette must be loaded with the tape slots facing you and side 1 (or A) facing upwards. Unload the cassette simply by lifting it out of the compartment. The cassette cannot be unloaded while the tape is moving, or while the tape recorder is in recording pause mode.

To close the drawer, gently tap the left-hand side of the front panel again.

The drawer may be left open both during playback and recording, if you like. When the tape recorder is switched to stand-by, the drawer will close automatically, however.

Starting and stopping playback

Start playing by pressing PLAY and stop by pressing STOP.

If you want to start at the beginning of the tape, press START GO. The tape will then be rewound, if necessary, and playing will start immediately.

Switch off by gently tapping the right-hand side of the front panel again. This will make the tape recorder revert to stand-by mode.

Using the automatic tape reverse function

The tape recorder automatically reverses the tape at the end of the first side and within one second starts playing or recording again, as the case may be. You don't have to turn the cassette manually. In order to ensure correct play or recording, however, it is essential to load the cassette with side 1 (or A) facing upwards.

If you don't want the tape to be reversed automatically, press AUTO REV. Press AUTO REV once more to cut in the automatic tape reverse function again.

The automatic tape reverse function is indicated by tiny arrows on the right-hand side of the front display.

You can 'turn' the tape at any point just by pressing TURN.

Repeating a tape

If you want to play a tape two consecutive times, press PLAY a second time.

Both arrows indicating the automatic tape reverse function will now be lit. This means that at the end of side 2 the tape recorder will automatically 'turn' the tape and continue to play from the start of side 1.

If the automatic tape reverse function has been cut out, the tape recorder will repeat the current side only, i.e. rewind when it reaches the end and then start playing the same side once more.

The repeat function will be cancelled if you use any button which stops, rewinds or winds the tape.

Rewinding and winding

The buttons « and » are used to rewind or wind a tape quickly.

Provided you haven't cut out the automatic tape reverse function, rewinding always means rewinding towards the start of side 1, and winding always means winding towards the end of side 2.

Stepping through tracks

You can step through the tracks, forwards or backwards, by pressing ADVANCE or RETURN the number of times required to step to the track you want.

The use of this function is indicated on the front display. Supposing you press ADVANCE four times to step forwards by four tracks, the display will first indicate four steps and then three, two, one, as the track desired is being approached.

Note: Pressing RETURN only once takes you to the beginning of the current track.

The tape recorder will only be able to recognize the tracks on a tape if there is a pause of at least 2.5 seconds between them.

Memorizing specific points on the tape

Specific points on the tape can be memorized for easy retrieval. This can be done both during recording and playback.

When you are at the point you want to memorize, press MEMO SET. Recording or playback continues unaffected.

When you later want to find the memorized point, press MEMO GO. The tape will then be rewound to that point, and playing will start from there.

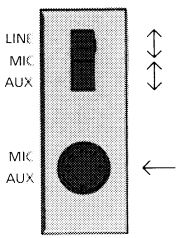
If you are recording, you first have to stop recording before you can activate MEMO GO.

If you press MEMO SET once more to memorize another point, the first one will be cancelled.

Unloading the cassette cancels any memorized points.

Selecting source to record from

Before recording, make sure that the LINE/MIC/AUX switch to the left of the tape compartment is set to the correct position:



- LINE. Use LINE if recording from one of the other units in the Beosystem 6500, or from any other system to which your Beocord 6500 is connected and which is also designed for LINE level.

- MIC. Use MIC if recording from a microphone connected to the MIC/AUX socket to the left of the tape compartment.

- AUX. Use AUX if recording from any other source connected to the MIC/AUX socket, e.g. another tape recorder.

We recommend that you get into the habit of always leaving the LINE/MIC/AUX switch in its LINE position whenever you have finished a recording.

Automatic recording

If you use the automatic recording facility, you don't have to think about adjusting the recording level. The tape recorder does so automatically.

Press AUTO REC to switch to automatic recording mode. Play the source you want to record from, allowing the tape recorder some time to adjust to the recording level. Then press AUTO REC again to start recording.

Press STOP to pause recording. The tape recorder now inserts a blank of 3.5 seconds on the tape before it stops.

Press AUTO REC again again if you want to resume recording, or press STOP again if you want to leave the recording mode.

During automatic recording the tape recorder automatically ensures that the recording level does not exceed a certain predetermined value.

For further details, see the paragraphs "Changing the maximum recording level" and "Changing the automatic recording start level".

Manual recording

Using the manual recording facility means that you override the automatic recording level adjustment and adjust the recording level manually.

Press MANUAL REC to switch to manual recording mode. You can now read off the level of the source you are going to record from.

Press REC LEVEL to see the current setting of the electronic 'potentiometer' on the display. Press ∧+ or ∨– if you want to raise or lower the setting of the potentiometer.

Each time you press either button the level is raised or lowered by one step of 2 dB. Within a few seconds the display gives you the signal level again.

Press MANUAL REC again to start recording.

Press STOP to pause recording. The tape recorder now inserts a blank of 3.5 seconds on the tape before it stops.

Press MANUAL REC again if you want to resume recording, or press STOP again if you want to leave the recording mode.

If you are recording from a microphone, we recommend that you use the manual recording facility described in this paragraph. This is because the microphone input is equipped with an automatic adjustment facility (AGC) of its own.

You can of course do manual adjustments to the recording level any time during automatic recording.

Press REC LEVEL to see the current setting of the electronic 'potentiometer'. Press ∧+ or ∨– if you want to raise or lower the setting of the potentiometer.

You have now disabled the automatic recording function. Just press AUTO REC again when you want to revert to automatic recording.

Changing the maximum recording level

The maximum recording level is the level at which the 'potentiometer' setting will be lowered automatically during automatic recording. This ensures that your tapes will never be overloaded.

When the tape recorder leaves the factory, the maximum recording level is set to +2 dB.

You can raise or lower this level so that it suits the tape you are using.

Press STOP and, while keeping the button depressed, press PPM MEMO. You will now see the preset maximum level on the display. Within two seconds press ∧+ or ∨– to raise or lower the level.

If you disconnect the tape recorder from the mains, the maximum recording level will be reset to +2 dB.

Changing the automatic recording start level

The automatic recording start level is the position which the 'potentiometer' is set to whenever an automatic recording is started.

When the tape recorder leaves the factory, the automatic recording start level is set to -4 on the level scale.

You can change this start level if the source you normally record from is either weak or strong. If your source is weak you will have to raise the level, if your source is strong you will have to lower the level.

Press STOP and, while keeping the button depressed, press REC LEVEL. Within two seconds press ∧+ to raise the level or ∨– to lower the level.

If you disconnect the tape recorder from the mains, the automatic recording start level will be reset to the preset level, i.e. -4.

Peak hold

The highest signal level occurring during a recording will be retained on the display while that recording is still in progress. This is also referred to as 'peak hold'.

You can delete the latest peak hold readout by pressing AUTO REC again if you are in automatic recording mode or MANUAL REC if you are in manual recording mode. The peak hold readout will then be reset.

Even if the tape recorder has already been switched to stand-by mode, you can still obtain a readout of the highest signal level occurring during the latest recording. Just press PPM MEMO to reveal it.

Inserting blanks of individual lengths

When you press STOP for the first time to pause a recording, the tape recorder automatically inserts a blank of 3.5 seconds. You can override this function and insert blanks of any length desired, or no blanks at all.

Press STOP to pause the recording and keep the button depressed for as long as you want the blank to last.

If you want the blank to be shorter than 3.5 seconds, press STOP once. Then press STOP immediately again and keep it depressed for the one or two seconds you want the blank to last.

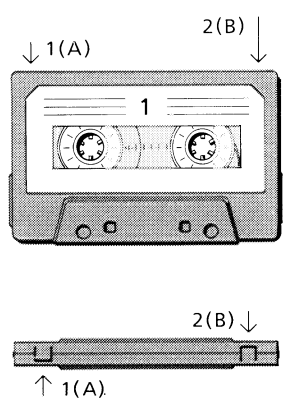
If you don't want any blanks at all, simply press STOP twice in quick succession.

Locking the recording function

Locking the recording function is useful if you want to avoid the risk of erasing a particular tape by accidentally making another recording on that tape.

After loading the cassette press REC LOCK. Now you cannot use the recording function until you remove the cassette from the compartment.

Of course, you can also remove one or both latches on the edge opposite the tape slots on the cassette. The latch on the left-hand side corresponds to side 1 (A), the latch on the right-hand side corresponds to side 2 (B). This ensures that the tape recorder cannot record on the appropriate side or both sides of the tape.



HX Professional

Your Beocord 6500 features the HX PRO recording system. HX PRO stands for Professional Headroom Extension.

This automatic circuit, which was developed by Bang & Olufsen in cooperation with the Dolby Laboratories, ensures optimum saturation of the tape, whichever type you are using.

You don't have to use any buttons or controls, nor do you have to play back your HX PRO tapes on a tape recorder equipped with the HX PRO recording system, to be able to benefit from it.

HX - PRO

Using Dolby NR*

Your Beocord 6500 is fitted with Dolby B and C noise reduction facilities. Before making a recording you must decide whether you want to use Dolby B, Dolby C or no Dolby at all.

Press DOLBY NR repeatedly to switch between the three settings: Dolby B, Dolby C, Dolby off, Dolby B... etc.

During recording the Beocord 6500 places a code on the tape, which ensures that the same Dolby setting is automatically selected when the tape is played back on the Beocord 6500.

You can override this code, if for some reason you want to play back a tape using another Dolby setting than the one with which the tape was recorded:

Press DOLBY NR to switch to the Dolby setting of your choice, e.g. Dolby B, but do not release the button. Keep DOLBY NR depressed for 1.5 seconds until the appropriate cue disappears from the display. Then release the button. When you play back the tape recorded with e.g. Dolby C codes, the ***DOLBY C*** *cue will blink, but the* ***DOLBY B*** *cue will glow constantly.*

Next time you press DOLBY NR the locked Dolby setting will be released.

*Trademark of Dolby Laboratories Licensing corporation. Noise reduction system manufactured under License from Dolby Laboratories Licensing Corporation.

Automatic tape type selection

You can use any type of tape in your Beocord 6500: metal, chrome or ferric.

Whichever type you choose, the tape recorder will register it automatically and make the necessary adjustments. Tape type adjustment is based on the IEC standard.

Locking the tape recorder in manual mode

You can, if you wish, lock the tape recorder in manual recording mode. This means that when you do recordings using the remote control, or when you programme the tape recorder to record from the radio, the recording will take place with the automatic level adjustment cut out.

Press STOP and while keeping it depressed, press MANUAL REC. The Beocord 6500 will now do manual recordings only.

If you want to restore the automatic recording function, press STOP and while keeping it depressed, press AUTO REC.

If you disconnect the tape recorder from the mains, the automatic recording function will also be restored.

Reading off signal level in left and right channels

You can read off the signal levels in the two channels separately.

Press STOP and while keeping the button depressed, press « to see the left channel or » to see the right channel. Proceed to play or record by pressing the appropriate button.

The left or right channel, as the case may be, will be retained on the display until you press STOP. Then you will see both channels again simultaneously.

Erasing tapes

Tapes can be erased in different ways:

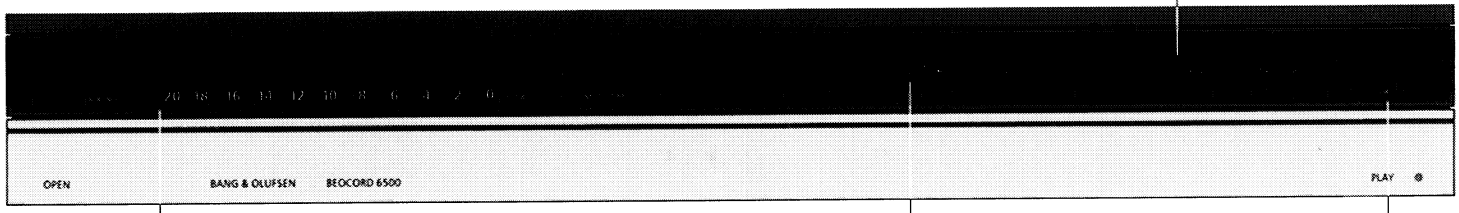
- by recording without switching on a source to record from.
- by setting the recording level to 0. To do so use the manual recording facility. This setting mutes the incoming signal totally.
- by setting the LINE/MIC/AUX switch to MIC or AUX, provided of course the MIC/AUX socket is vacant.

Displayed cues and symbols

The display on the front of the Beocord gives information about the operational status of the system

The cues and symbols shown will not all be displayed at the same time

Indicates Dolby NR B, C or no Dolby NR



Indicates track numbers or signal level. Press >DISPLAY> to alternate between the two

If tape has been calibrated, current track blinks

Indicates state of search

Indicates rewinding or fast forward

(AUTO) RECORDING
(Automatic) recording in progress

(AUTO) RECORDING PAUSE
(Automatic) recording pause mode

Tape side indicators: current side blinks

Arrows indicate automatic tape reverse

The tape path, i.e. tape heads, pinch rollers and other parts which the tape touches during play or recording, should be cleaned every now and then to avoid dust and fluff build-up.

Use a tape head maintenance kit or simply a wool stick dipped in a rinsing fluid designed for this purpose. The cleaning process must be carried out while there is no cassette in the compartment.

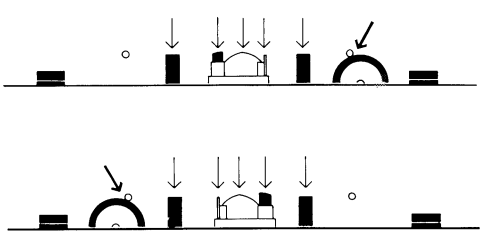
Do not use denatured alcohol to clean any part of the Beocord 6500. *Cleaning the tape head and pinch rollers is easier when they are in an exposed position.*

Press STOP and while keeping it depressed, press PLAY. Then release STOP.

The tape head and the right-hand pinch roller are now exposed, enabling you to clean them as prescribed. During this process the pinch rollers will be turning.

Press TURN to expose and clean the left-hand pinch roller.

Press STOP when you have finished the cleaning process.



International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. The terms of the guarantee apply to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee, a certificate stating the following information is required:
- Name of product and type number
- Serial number
- Date of purchase
- Guarantee period
- Dealer's or supplier's signature

This Beocord fulfils the conditions stated in the EEC directive 82/499 concerning radio frequency interference.

Special note for the UK market

IMPORTANT
The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your unit, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

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